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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 23-08-19

Lab ID	:	CP-2019-11-13-17
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Culverts and Improvements Of Drains at Dasarahalli Surrounding Area in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.N.Manjunath, No:1, Thirumenahalli, Jakkur (P), Yelahanka Hobli, Bangalore-560 064.
Customer's Reference	:	BBMP/EE/BTP/WO/80/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-08-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	21-08-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.85	–
2	Finess by Air permeablity method (m^2/kg,Min)	348.6	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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Authorized Signatory
Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-11-13-17** **Date: 18-09-19**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Culverts and Improvements Of Drains at Dasarahalli Surrounding Area in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.N.Manjunath, No:1, Thirumenahalli, Jakkur (P), Yelahanka Hobli, Bangalore-560 064.
Customer's Reference	:	BBMP/EE/BTP/WO/80/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-08-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	21-08-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-11-13-17** **Date: 23-08-19**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Culverts and Improvements Of Drains at Dasarahalli Surrounding Area in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.N.Manjunath, No:1, Thirumenahalli, Jakkur (P), Yelahanka Hobli, Bangalore-560 064.
Customer's Reference	:	BBMP/EE/BTP/WO/80/2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	20-08-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	20-08-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-11-13-17** **Date: 23-08-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.41	–
5	Bulk Density(Compacted) (Kg/l)	1.47	–
6	Water Absorption(%)	0.23	–

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TEST REPORT ON COARSE AGGREGATES

Date: 22-08-19

Lab ID	:	CP-2019-11-13-17
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Culverts and Improvements Of Drains at Dasarahalli Surrounding Area in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.N.Manjunath, No:1, Thirumenahalli, Jakkur (P), Yelahanka Hobli, Bangalore-560 064.
Customer Reference	:	BBMP/EE/BTP/WO/80/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-08-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	20-08-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	225	225	4.5	95.5	90-100
3	10 mm	2845	3070	61.4	38.6	25-55
4	4.75 mm	1745	4815	96.3	3.7	0-10
5	Pan	185	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-11-13-17** **Date: 22-08-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.1	
3	Specific Gravity	2.68	_
4	Bulk Density(Loose) (Kg/l)	1.43	_
5	Bulk Density(Compacted) (Kg/l)	1.49	_
6	Water Absorption(%)	0.23	_
7	Aggregate crushing Value(%)	22.9	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Date: 22-08-19

Lab ID	:	CP-2019-11-13-17
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Culverts and Improvements Of Drains at Dasarahalli Surrounding Area in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.N.Manjunath, No:1, Thirumenahalli, Jakkur (P), Yelahanka Hobli, Bangalore-560 064.
Customer's Reference	:	BBMP/EE/BTP/WO/80/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-08-19
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	20-08-19
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	25	25	2.5	97.5	90-100	90-100	90-100	95-100
3	2.36 mm	52	77	7.7	92.3	60-95	75-100	85-100	95-100
4	1.18 mm	244	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	201	727	72.7	27.3	5-20	8-30	12-40	15-50
7	150 micron	190	917	91.7	8.3	0-10	0-10	0-10	0-15
8	Pan	83	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-11-13-17** **Date: 22-08-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.53	–
2	Specific Gravity	2.61	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Date: 26-08-19

Lab ID	:	CP-2019-11-13-17
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Culverts and Improvements Of Drains at Dasarahalli Surrounding Area in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.N.Manjunath, No:1, Thirumenahalli, Jakkur (P), Yelahanka Hobli, Bangalore-560 064.
Customer's Reference	:	BBMP/EE/BTP/WO/80/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-08-19
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	24-08-19

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 03/09/2019

Lab ID	:	CP-2019-11-13-17
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Culverts and Improvements Of Drains at Dasarahalli Surrounding Area in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.N.Manjunath, No:1, Thirumenahalli, Jakkur (P), Yelahanka Hobli, Bangalore-560 064.
Customer's Reference	:	BBMP/EE/BTP/WO/80/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-08-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	03/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	27/08/2019	03/09/2019	149.73 X 150.38 X 149.00	22516	8.424	406.8	18.1	18.3
2	Drain Bottom Slab Concrete	M20	27/08/2019	03/09/2019	151.92 X 151.19 X 149.67	22969	8.435	428.2	18.6	
3	Drain Bottom Slab Concrete	M20	27/08/2019	03/09/2019	150.52 X 150.43 X 149.32	22642	8.251	408.6	18.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 24/09/2019

Lab ID	:	**CP-2019-11-13-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Culverts and Improvements Of Drains at Dasarahalli Surrounding Area in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.N.Manjunath, No:1, Thirumenahalli, Jakkur (P), Yelahanka Hobli, Bangalore-560 064.
Customer's Reference	:	BBMP/EE/BTP/WO/80/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-08-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	27/08/2019	24/09/2019	149.65 X 149.69 X 150.00	22401	8.978	522.6	23.3	23.1
2	Drain Bottom Slab Concrete	M20	27/08/2019	24/09/2019	150.27 X 149.65 X 149.38	22488	8.219	497.3	22.1	
3	Drain Bottom Slab Concrete	M20	27/08/2019	24/09/2019	151.48 X 149.46 X 151.82	22640	8.867	541.3	23.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 03/09/2019

Lab ID	:	**CP-2019-11-13-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Culverts and Improvements Of Drains at Dasarahalli Surrounding Area in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.N.Manjunath, No:1, Thirumenahalli, Jakkur (P), Yelahanka Hobli, Bangalore-560 064.
Customer's Reference	:	BBMP/EE/BTP/WO/80/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-08-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	27/08/2019	03/09/2019	149.91 X 149.10 X 149.69	22352	8.424	421.6	18.9	18.6
2	Drain Bottom Slab Concrete	M20	27/08/2019	03/09/2019	149.01 X 151.15 X 151.85	22524	8.435	415.6	18.5	
3	Drain Bottom Slab Concrete	M20	27/08/2019	03/09/2019	151.52 X 150.93 X 151.73	22869	8.251	425.0	18.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 24/09/2019

Lab ID	:	**CP-2019-11-13-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Culverts and Improvements Of Drains at Dasarahalli Surrounding Area in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.N.Manjunath, No:1, Thirumenahalli, Jakkur (P), Yelahanka Hobli, Bangalore-560 064.
Customer's Reference	:	BBMP/EE/BTP/WO/80/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-08-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	27/08/2019	24/09/2019	149.63 X 150.39 X 149.85	22503	8.978	531.1	23.6	23.3
2	Drain Bottom Slab Concrete	M20	27/08/2019	24/09/2019	149.36 X 149.44 X 149.52	22320	8.219	504.5	22.6	
3	Drain Bottom Slab Concrete	M20	27/08/2019	24/09/2019	150.63 X 150.39 X 150.01	22652	8.867	537.0	23.7	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 10/09/2019

Lab ID	:	CP-2019-11-13-17
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Culverts and Improvements Of Drains at Dasarahalli Surrounding Area in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.N.Manjunath, No:1, Thirumenahalli, Jakkur (P), Yelahanka Hobli, Bangalore-560 064.
Customer's Reference	:	BBMP/EE/BTP/WO/80/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-09-19
Customer ID	:	Drain Side wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	10/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side wall Concrete	M20	03/09/2019	10/09/2019	150.33 X 149.49 X 149.58	22473	8.424	424.0	18.9	18.8
2	Drain Side wall Concrete	M20	03/09/2019	10/09/2019	149.71 X 150.96 X 149.73	22600	8.435	423.9	18.8	
3	Drain Side wall Concrete	M20	03/09/2019	10/09/2019	151.18 X 150.73 X 151.61	22788	8.251	430.7	18.9	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 01/10/2019

Lab ID	:	**CP-2019-11-13-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Culverts and Improvements Of Drains at Dasarahalli Surrounding Area in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.N.Manjunath, No:1, Thirumenahalli, Jakkur (P), Yelahanka Hobli, Bangalore-560 064.
Customer's Reference	:	BBMP/EE/BTP/WO/80/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-09-19
Customer ID	:	Drain Side wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	01/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side wall Concrete	M20	03/09/2019	01/10/2019	151.95 X 150.78 X 150.91	22911	8.978	539.9	23.6	22.9
2	Drain Side wall Concrete	M20	03/09/2019	01/10/2019	149.94 X 149.87 X 149.85	22472	8.219	496.7	22.1	
3	Drain Side wall Concrete	M20	03/09/2019	01/10/2019	150.83 X 150.53 X 149.28	22705	8.867	525.6	23.1	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-11-13-17 **Date: 10/09/2019**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Culverts and Improvements Of Drains at Dasarahalli Surrounding Area in Ward No.06 Byatarayanapura Sub Division.

Agency : Sri.N.Manjunath, No:1, Thirumenahalli, Jakkur (P), Yelahanka Hobli, Bangalore-560 064.

Customer's Reference : BBMP/EE/BTP/WO/80/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-09-19

Customer ID : Drain Side wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side wall Concrete	M20	03/09/2019	10/09/2019	150.81 X 149.96 X 151.06	22616	8.424	417.9	18.5	18.4
2	Drain Side wall Concrete	M20	03/09/2019	10/09/2019	149.90 X 151.04 X 149.85	22641	8.435	419.7	18.5	
3	Drain Side wall Concrete	M20	03/09/2019	10/09/2019	149.90 X 149.51 X 150.48	22412	8.251	408.7	18.2	

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Date: 01/10/2019

Lab ID	:	CP-2019-11-13-17
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Culverts and Improvements Of Drains at Dasarahalli Surrounding Area in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.N.Manjunath, No:1, Thirumenahalli, Jakkur (P), Yelahanka Hobli, Bangalore-560 064.
Customer's Reference	:	BBMP/EE/BTP/WO/80/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-09-19
Customer ID	:	Drain Side wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	01/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side wall Concrete	M20	03/09/2019	01/10/2019	150.64 X 150.60 X 151.93	22686	8.978	524.3	23.1	23.1
2	Drain Side wall Concrete	M20	03/09/2019	01/10/2019	149.06 X 150.03 X 150.99	22363	8.219	509.0	22.8	
3	Drain Side wall Concrete	M20	03/09/2019	01/10/2019	150.61 X 151.16 X 150.95	22766	8.867	534.2	23.5	

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